

CONTRACT

NO. 01-04-A-123955-0198

AMENDMENT NO. _____

A. G. Contract No. KR97
ADOT ECS File: JPA 97-
Project: P0700 01P/TP62
Program: Mobility Management
Traffic Data Collection
Processing

This number must appear on all
invoices, correspondence, and
documents pertaining to this
contract

INTERGOVERNMENTAL AGREEMENT

BETWEEN

THE STATE OF ARIZONA

AND

PIMA COUNTY, ARIZONA

THIS AGREEMENT is entered into 12 February, 1998,
pursuant to Arizona Revised Statutes Section 11-952 through 11-954
as amended, between the STATE OF, acting by and through its
DEPARTMENT OF TRANSPORTATION (the "State") and PIMA COUNTY,
ARIZONA acting by and through its BOARD OF SUPERVISORS (the
"County").

I. RECITALS

1. The State is empowered by Arizona Revised Statutes
Section 28-108 and 28-112 to enter into this agreement and has by
resolution, a copy of which is attached hereto and made a part
hereof, resolved to enter into this agreement and has delegated to
the undersigned the authority to execute this agreement on behalf
of the State.

2. The County is empowered by Arizona Revised Statutes
Section 11-251 to enter into this agreement and has by resolution,
a copy of which is attached hereto and made a part hereof,
resolved to enter into this agreement and has authorized the
undersigned to execute this agreement on behalf of the County.

3. The Federal Intermodal Surface Transportation
Efficiency Act of 1991 has made funds available to the State for
the use of the County to conduct the Mobility Management Plan
Traffic Data Collection and Processing tasks. The State and the
County desire to define their respective responsibilities relating
to the transfer of up to \$4,100.00 through the State to the County
and the expenditure thereof.

THEREFORE, in consideration of the mutual agreements expressed
herein, it is agreed as follows:

NO. 22/99
Filed with the Secretary of State
Date Filed: 02/12/98

Betty Gayles
Secretary of State

By: Wm. J. Haenewald

II. SCOPE

1. The State will:

Provide the County federal funds in the amount of up to \$4,100.00 on a cost reimbursement basis for activities performed relating to the Mobility Management Plan Traffic Data Collection and Processing work tasks.

2. The County will:

a. Apply funding to project work activities in strict accordance with applicable Federal and State laws, rules and regulations.

b. Conduct related work activities generally in accordance with Attachment A, which is incorporated herein and made a part hereof. Be responsible for any claims for extra compensation.

c. Invoice the State for reimbursement no more often than monthly, supported by reports, in a total amount not to exceed \$4,100.00.

III. MISCELLANEOUS PROVISIONS

1. This agreement shall remain in force and effect for a period of one (1) year from the effective date of the agreement, however, this agreement may be cancelled at any time prior to the commencement of performance, upon thirty (30) days written notice to the other party.

2. This agreement shall become effective upon filing with the Secretary of State.

3. This agreement may be cancelled in accordance with Arizona Revised Statutes Section 38-511.

4. The provisions of Arizona Revised Statutes Section 35-214 are applicable to this contract.

5. In the event of any controversy which may arise out of this agreement, the parties hereto agree to abide by required arbitration as is set forth in Arizona Revised Statutes Section 12-1518.

6. All notices or demands upon any party relating to this agreement shall be in writing and shall be delivered in person or sent by mail addressed as follows:

Arizona Department of Transportation
Joint Project Administration
205 South 17 Avenue, Mail Drop 616E
Phoenix, AZ 85007

Pima County Department of Transportation
Transportation Systems Division
Attn: Traffic Engineering Manager
201 N. Stone Avenue - 3rd floor
Tucson, AZ 85701-1207

9. Attached hereto and incorporated herein is the written determination of legal counsel that the parties are authorized under the laws of this State to enter into this agreement and that the agreement is in proper form.

IN WITNESS WHEREOF, the parties have executed this agreement the day and year first above written.

PIMA COUNTY, ARIZONA

STATE OF ARIZONA
Department of Transportation

By Mike Boyd
Mike Boyd, Chairman
Board of Supervisors

By Jay Klagge
JAY KLAGGE, Director
Transportation Planning

JAN 13 1998

ATTEST

By Lori Godoshian
LORI GODOSHIAN
Clerk of the Board

Date: 1/13/98

Contractor shall comply with all applicable provisions of the Americans with Disabilities Act (Public Law, 101-336, 42 U.S.C. 12101 12213) and all applicable Federal Regulations under the Act including 28 CFR Parts 35 & 36.

APPROVAL

The foregoing Intergovernmental Agreement by and between The Arizona Department of Transportation and Pima County; JPA 97-117 has been reviewed and is hereby approved as to content.

Brooks A. Keenan

Brooks A. Keenan, P.E.

Director

Pima County Transportation
and Flood Control District

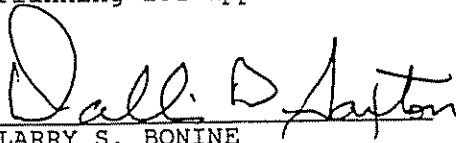
12-24-97

Date

RESOLUTION

BE IT RESOLVED on this 21st day of July 1997, that I, the undersigned LARRY S. BONINE, as Director of the Arizona Department of Transportation, have determined that it is in the best interests of the State of Arizona that the Department of Transportation, acting by and through the Intermodal Transportation Division, to enter into an agreement with Pima County for the purpose of defining responsibilities for conducting a Mobility Management for Traffic Data Collection and Processing study.

Therefore, authorization is hereby granted to draft said agreement which, upon completion, shall be submitted to the Director of Transportation Planning for approval and execution.


for LARRY S. BONINE
Director

APPROVAL OF THE PIMA COUNTY ATTORNEY

I have reviewed the above referenced proposed intergovernmental agreement, between the DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, and PIMA COUNTY and declare this agreement to be in proper form and within the powers and authority granted to the County under the laws of the State of Arizona.

DATED this _____ day of _____, 1997.

Alvin Krieb

County Attorney

Attachmant "A"

Pima Association of Governments

Mobility Management Plan

PROPOSAL FOR
TRAFFIC DATA COLLECTION AND PROCESSING SERVICES

NOVEMBER 1997

Prepared for

Arizona Department of Transportation

Prepared by

Pima County Department of Transportation

Transportation Systems Division

Traffic Engineering Section

A. BACKGROUND INFORMATION

The Mobility Management Plan (MMP) is a dynamic plan. In order for the information to be useful to local transportation planners and engineers, it must be kept up to date. The Arizona Department of Transportation (ADOT) has requested that the Pima County Department of Transportation (PCDOT) perform traffic data collection and data processing services for a significant number of intersections. It is the intent of ADOT to reimburse PCDOT for the cost of these services. The information collected and processed will then be provided to the Pima Association of Governments (PAG), Transportation Planning Division (TPD) for incorporation into the MMP. The primary services to be conducted involve collecting traffic volume and delay information and performing capacity analyses.

B. PURPOSE

The purposes of this document are the following.

1. To describe the work tasks that will be performed by PCDOT for ADOT.
2. To identify the locations where the various types of services will be performed.
3. To provide a tentative schedule of the work to be performed.
4. To provide an approximate cost of each service to be performed.
5. To describe the products that will be prepared.

C. WORK TASKS TO BE PERFORMED

1. Road tube traffic counts

These machine traffic counts will be performed on roadway segments and at all unsignalized intersections except for those having all-way stop conditions. The duration of the traffic counts will be 24 hours. On the roadway segments, two way traffic volumes will be monitored by direction. At intersections, only the approach traffic volumes will be monitored.

2. Turning movement traffic counts

These manual traffic counts will be performed at all signalized intersections and intersections where all-way stop conditions exist. The critical peak period, i.e., morning or afternoon, will be selected for the traffic counts by the ADOT staff. The duration of the traffic counts will be two hours.

3. Delay surveys

These surveys will be performed at the same locations as the locations where turning movement traffic counts are conducted. The surveys will be conducted during the peak hour of the two hour peak period.

4. Additional field data necessary to perform capacity analyses

Traffic signal timing and any other information related to performing capacity analyses at the signalized intersections and those intersections with all-way stop conditions will be collected during the peak hour.

5. Capacity analyses

These analyses will be performed for all signalized intersections and intersections where all-way stop conditions exist. The data collected during the peak hours at these intersections will be utilized as input data for the McTrans Highway Capacity Software.

D. LOCATIONS OF DATA COLLECTIONS

1. Signalized intersections:

- a. Ajo Way/I-19 northbound off ramp.
- b. Ajo Way/I-19 southbound off ramp.
- c. Alvernon Way/Benson Highway.
- d. Benson Highway/Palo Verde Road.
- e. First Avenue/Oracle Road.
- f. Ina Road/I-10 eastbound off ramp.
- g. Ina Road/I-10 westbound off ramp.
- h. Ina Road/Oracle Road.
- i. Irvington Road/I-19 northbound off ramp.
- j. Irvington Road/I-19 southbound off ramp.
- k. Kinney Road/State Route 86.
- l. Magee Road/Oracle Road.
- m. Nogales Highway/Sahuarita Road.
- n. Oracle Road/Orange Grove Road.
- o. Oracle Road/Tangerine Road.
- p. Orange Grove Road/I-10 westbound off ramp.
- q. Prince Road/I-10 eastbound off ramp.
- r. Prince Road/I-10 westbound off ramp.
- s. Rancho Vistoso Boulevard/Oracle Road.
- t. Ruthrauff Road/I-10 eastbound off ramp.
- u. Ruthrauff Road/I-10 westbound off ramp.
- v. Valencia Road/I-10 eastbound off ramp.
- w. Valencia Road/I-10 westbound off ramp.

2. All-way stop condition unsignalized intersections:

- a. First Avenue/Tangerine Road.

3. Other unsignalized intersections:

- a. Continental Road/I-19 northbound off ramp.
- b. Continental Road/I-19 southbound off ramp.
- c. Cortaro Road/I-10 eastbound off ramp.
- d. Cortaro Road/I-10 westbound off ramp.
- e. Duval Mine Road/I-19 northbound off ramp.
- f. Duval Mine Road/I-19 southbound off ramp.
- g. Esperanza Boulevard/I-19 northbound off ramp.
- h. Esperanza Boulevard/I-19 southbound off ramp.
- i. Hardy Road/Oracle Road.
- j. Orange Grove Road/I-10 eastbound off ramp.
- k. Sahuarita Road/I-19 northbound off ramp.
- l. Sahuarita Road/I-19 southbound off ramp.
- m. State Route 86/Valencia Road.
- n. Tangerine Road/I-10 eastbound off ramp.
- o. Tangerine Road/I-10 westbound off ramp.
- p. Valencia Road/I-19 northbound off ramp.
- q. Valencia Road/I-19 southbound off ramp.

4. Roadway segments:

- a. State Route 83/south of I-10

E. TENTATIVE SCHEDULE

It has been agreed by the agencies involved in the MMP that the data should be collected on a three year cycle. It is the intent of PCDOT to collect one-third of the required data each year. Depending on the amount of PCDOT work being performed by the PCDOT staff, this ADOT data collection effort could take as long as two to three months. It is suggested that data be collected from late August, after school is in session, until the week of Thanksgiving and then from approximately January 15 until May 1, excluding the spring breaks for the various schools. The local school districts, the University of Arizona (U of A) and Pima Community College (PCC) will have classes in session during these periods. In addition, the periods selected avoid weeks when final exams are typically given at U of A, PCC and the local high schools.

F. COSTS OF SERVICES

The costs of performing the work tasks were calculated using the following rates. The labor rates are for FY 1996-97 and include benefits and overhead.

1.	Engineer	\$54.41/hour
2.	Data Collections Supervisor	\$36.83/hour
3.	Technicians (3 different positions)	\$31.33, \$27.03, \$24.05/hour
4.	Clerical	\$19.68/hour
5.	Traffic Counting Van	\$0.444/mile
6.	Sedan	\$0.320/mile

Based on the aforementioned rates, the approximate costs of the work tasks to be performed are as follows.

1.	Road tube traffic counts	\$65.00 each
2.	Turning movement traffic counts	\$285.00 each
3.	Delay survey	\$75.00 each
4.	Highway capacity software analyses	\$80.00 each

For billing purposes, PCDOT will establish a Work Order Number for this activity and invoice ADOT for the actual expenses, based on the hours worked and the vehicle miles driven. Based on these approximate costs, PCDOT will invoice ADOT approximately \$4,100.00 each year. However, if ADOT wants to accelerate this work in the first year or two, this is also possible.

G. PRODUCTS PREPARED

The products prepared will include the following items.

1. Paper copies and computer disks of all road tube traffic count and turning movement traffic count summary sheets.
2. Paper copies and computer disks of all delay survey summary sheets.
3. Paper copies and computer disks of all capacity analyses.



GRANT WOODS
ATTORNEY GENERAL

STATE OF ARIZONA
OFFICE OF THE ATTORNEY GENERAL
1275 WEST WASHINGTON, PHOENIX 85007-2926

TRN Main: (602) 542-1680
Direct: (602) 542-8837
Fax: (602) 542-3646
MAIN PHONE : 542-5025
TELECOPIER : 542-4085

INTERGOVERNMENTAL AGREEMENT
DETERMINATION

A.G. Contract No. KR97-1691TRN, an agreement between public agencies, has been reviewed pursuant to A.R.S. § 11-952, as amended, by the undersigned Assistant Attorney General who has determined that it is in the proper form and is within the powers and authority granted to the State of Arizona.

No opinion is expressed as to the authority of the remaining parties, other than the State or its agencies, to enter into said agreement.

DATE February 6, 1998.

GRANT WOODS
Attorney General

JAMES R. REDPATH
Assistant Attorney General
Transportation Section

JRR:et/10371

Enc.